

**Legal Description**  
 PART OF LOTS 18, 19 and 20  
 CONCESSION 1  
 (Geographic Township of Puslinch)  
 TOWNSHIP OF PUSLINCH  
 COUNTY OF WELLINGTON

**Legend**

- Boundary of Area to be Licensed
- Additional Lands Owned by Applicant
- Existing Fence
- Public Road - Paved
- Public Road - Gravel
- Private Laneway
- Existing Access
- Hydro Pole
- Provincially Significant Wetland
- Unevaluated Wetland
- Groundwater Monitor
- Surface Water Monitor
- Ecological Monitoring Survey Transect
- Cross Sections
- Limit of Excavation
- Contour with Elevation
- Existing Spot Height Elevation
- Building/Structure
- Existing Vegetation
- Direction of Surface Drainage
- Drainage Feature
- Parcel Fabric
- Archaeological Site
- Floodplain Extent

**Site Plan Amendments**

No.	Date	Description	By

**MHBC** PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE  
 200-540 BINGEMANS CENTRE DR. KITCHENER, ON. N2B 3K9 | P: 519.576.3650 | WWW.MHBCPLAN.COM

MNR Approval Stamp

Stamp

Applicant

Applicant's Signature

**VOTORANTIM cimentos** **cbm**

55 Industrial St. 4th Floor Toronto, Ontario M4G 3W9  
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Andreeana Simard  
 Director of Lands, Resources and Environment  
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**Project**  
**Aberfoyle South Lake Pit**

ARA Licence Reference No. \_\_\_\_\_ Pre-approval review: \_\_\_\_\_

Plan Scale 1:2,500 (Arch D)

**SCALE**  
 0 25 50 100 METRES

Plot Scale 1:2.5 [1mm = 2.5 units] MODEL

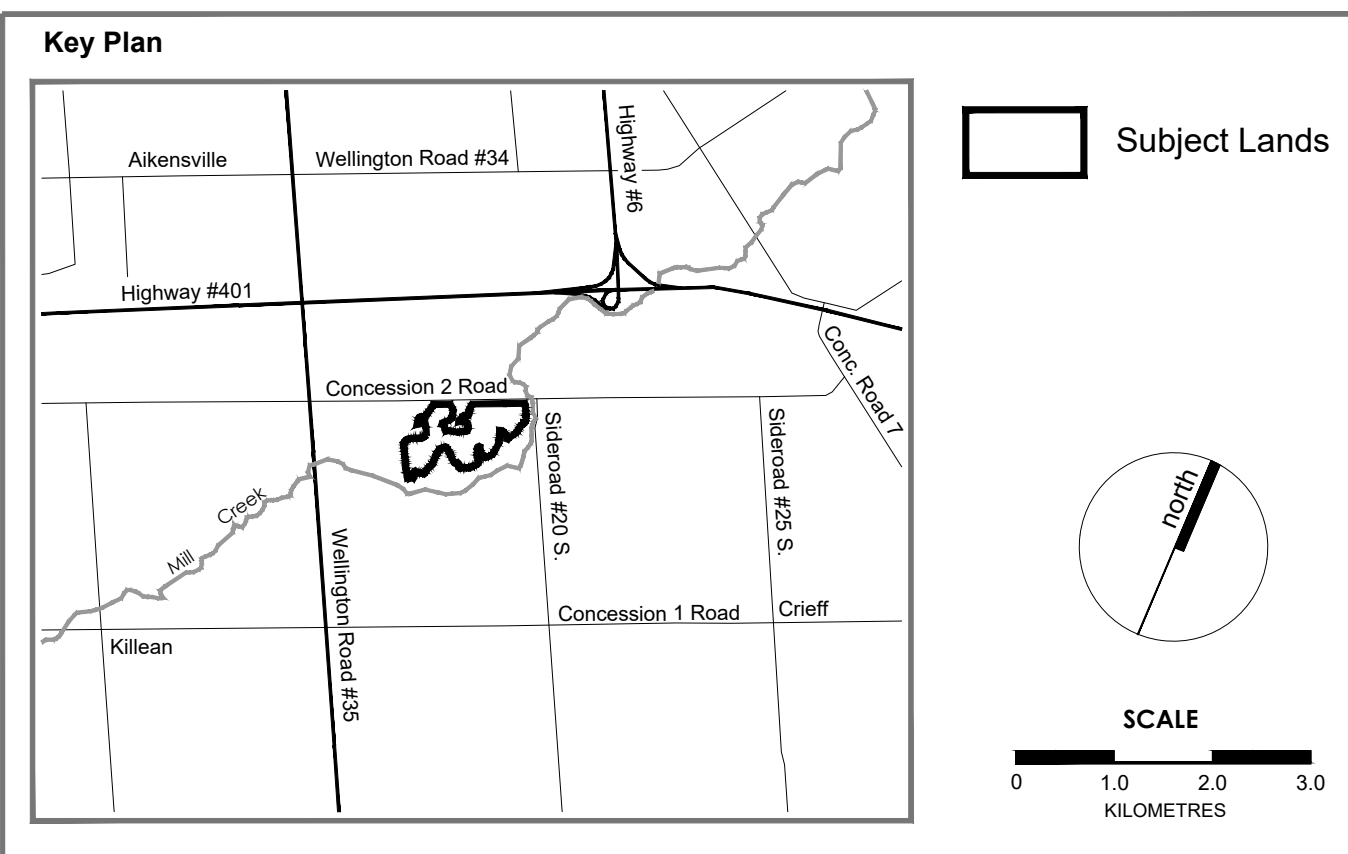
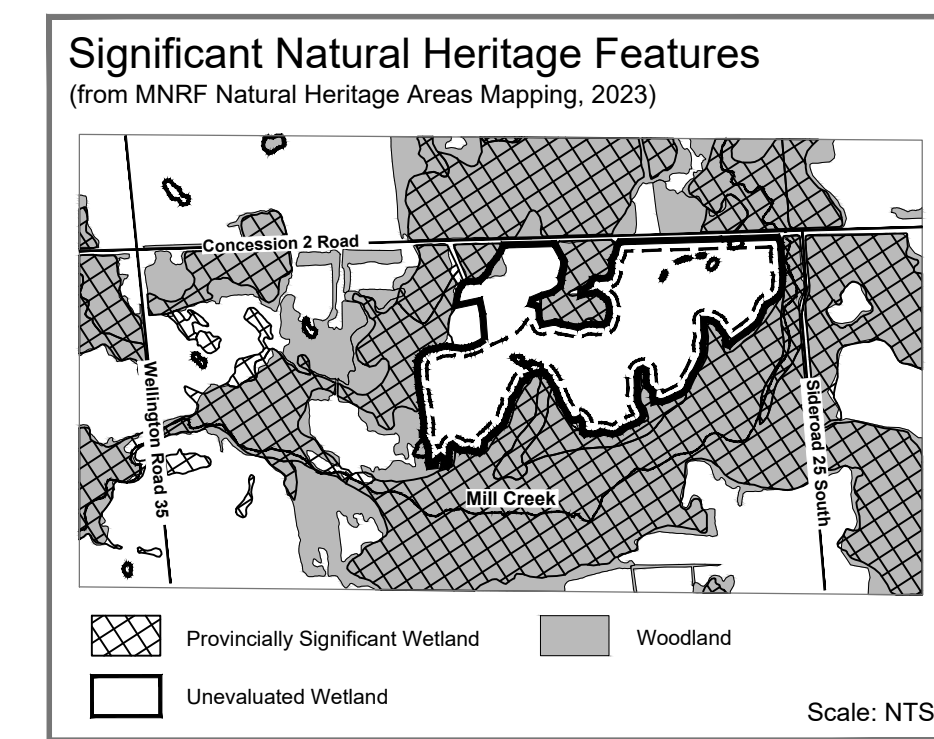
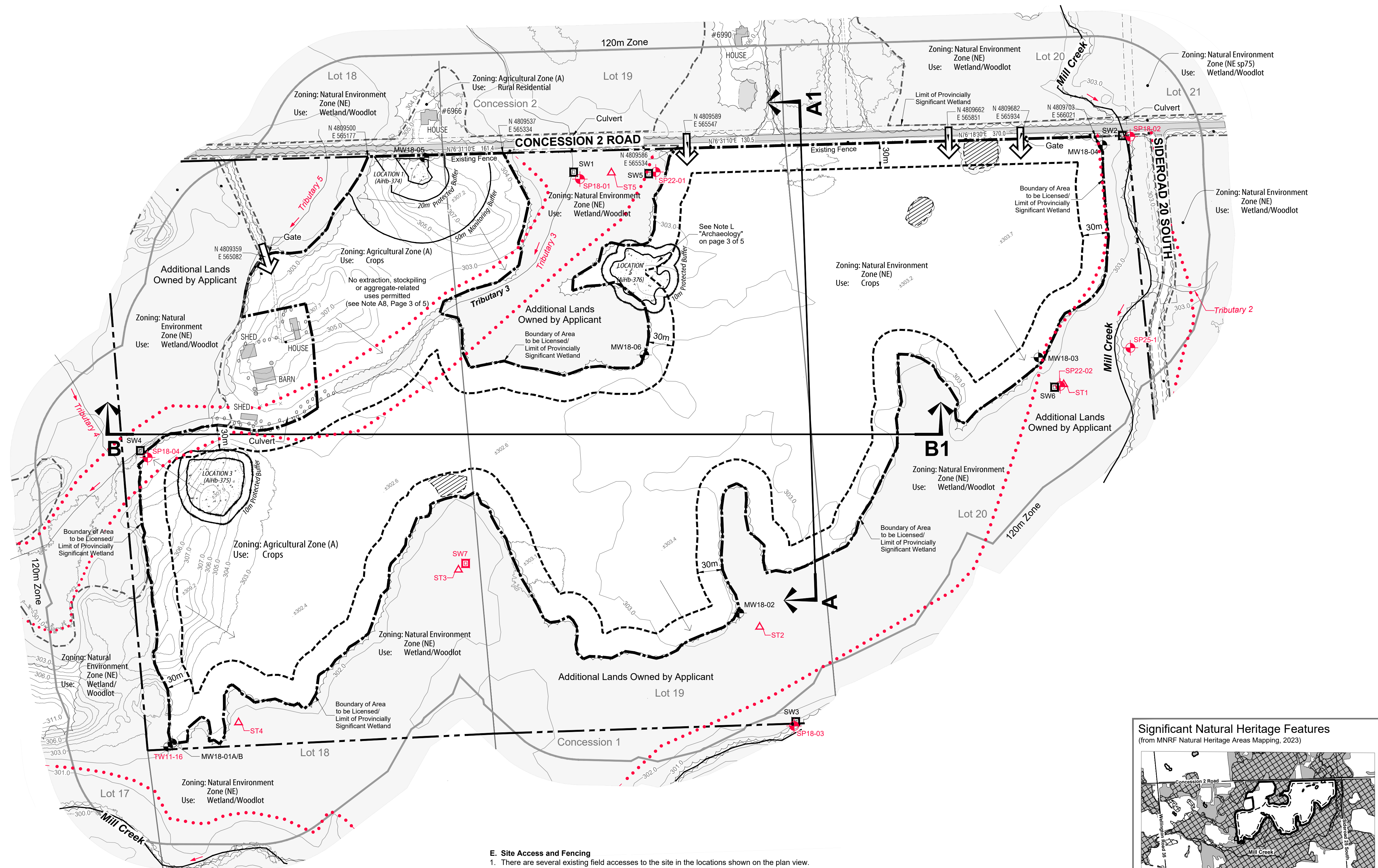
Drawn By D.G.S. File No. \_\_\_\_\_

Checked By N.D.

**EXISTING FEATURES PLAN**

Drawing No. **1 OF 5**

K:\Y321AB- CBM Aberfoyle South Pit Expansion\A\CBM Aberfoyle South Lake Pit Efileplan 1of5 November2025 Agency and Public Comments.dwg



**Notes**

- A. General**
- This site plan is prepared under the Aggregate Resources Act (ARA) for a Class A licence for a pit below the ground water table and follows the Aggregate Resources of Ontario: Site Plan Standards August 2020, specifically Existing Features for all sites (Numbers 1-26 in the standards).
  - Area Calculations:  
 Licence Area: 44.8 hectares (110 acres)  
 Limit of Extraction: 27.5 hectares (67 acres)
  - All measurements shown are in metres unless specified otherwise.
- B. References**
- Topographic information compiled by GeoOptic (a division of Aeon Egmond Ltd.) with supplementary information from the Ontario Digital Terrain Model (contains information licensed under the Open Government Licence - Ontario). Data from GeoOptic was produced from aerial photography that was flown on June 4, 2021. Mapping is produced in real world scale and coordinates (NAD83 UTM Zone 17N). Contour interval is 1m. All elevations are geodetic (CGVD2013 ht2).
  - Plan of Survey prepared by Delph & Jenkins North Ltd. (2018).
  - The subject lands are zoned Agricultural (A) and Natural Environment (NE) and subject to an Environmental Protection Overlay in the Township of Puslinch Comprehensive Zoning By-law 2018-023 [April 2018 and Revised January 2020].
  - Ontario GeoHub @ King's Printer for Ontario, 2023.
  - Grand River Conservation Authority (GRCA) for adjacent wetlands and WSP for floodline extent and field verified wetlands.
  - Land use information compiled from 2021 imagery, site visits and client input.
- C. Drainage**
- Surface drainage on and within 120 metres of the licence boundary is by overland flow in the directions shown by arrows on the plan view or by infiltration.
- D. Groundwater**
- Based on the available groundwater elevation data, the maximum predicted water table on the site is 301.91 metres asl in the western edge of the extraction area (as measured at SP18-04) to 304.33 masl in the northern portion of the site (as measured at MW18-04). The water table slopes downward moving from east to west across the site.

**E. Site Access and Fencing**

- There are several existing field accesses to the site in the locations shown on the plan view.
- Post and wire fencing (unless noted otherwise) exists in the locations shown on the plan view.

**F. Aggregate Related Site Features**

- There are no existing aggregate operations or features on-site such as processing areas with stationary or portable equipment, stockpiles, recyclable materials, scrap, haul roads, fuel storage, berms or excavation faces.

**G. Significant Natural Features**

- On-site: fish habitat (Tributary 3), unevaluated wetlands
- Off-site within 120m: Mill Creek-Puslinch Provincially Significant Wetland, significant woodlands, endangered and threatened species habitat (little brown myotis, northern myotis, eastern small-footed myotis, tri-coloured bat and black ash), fish habitat and significant wildlife habitat.

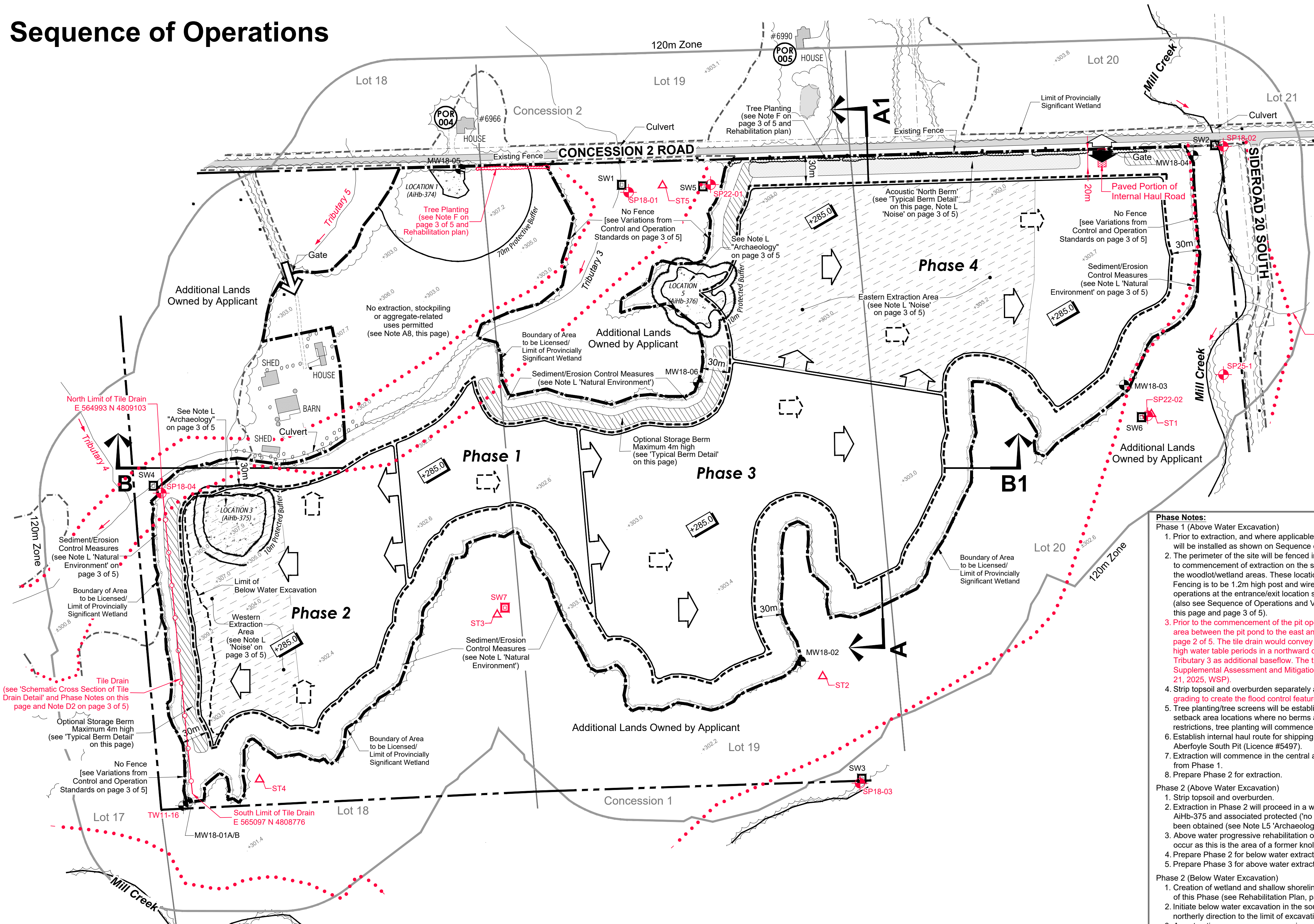
**H. Cross Sections**

- As shown on this page. Detailed sections are shown on page 5 of 5.
- Cross section locations are identified on the plan view for each drawing.

**I. Report References**

- Noise: "Noise Impact Assessment, Aberfoyle Pit Expansion" November 2023 (Source: WSP)
- Natural Environment: "Natural Environment Report, Proposed Aberfoyle South Pit Expansion" November 2023 (Source: WSP)
- Hydrogeology: "Water Report Level 1/2 Aberfoyle South Pit Expansion" November 2023 (Source: WSP)
- Maximum Predicted Water Table Report: "Maximum Predicted Water Table Report" November 2023 (Source: WSP)
- Archaeology: "Stage 1 and 2 Archaeological Assessment, Revised Report" August 28, 2023 and "Stage 3 Archaeological Assessment (Locations 3 & 5)" June 1, 2023 (Source: WSP)
- Traffic: "Revised Transportation Impact Study, CBM Aberfoyle South Lake Pit" February 2025 (Source: TYLin)
- Agricultural Review: "Proposed Aberfoyle South Pit Expansion: Agricultural Considerations" September 2023 (Source: MHBC Planning)
- Dust: "Best Management Practices Plan for the Control of Fugitive Dust at Aberfoyle South Pit Expansion" October 2023 (Source: WSP)
- Supplemental Assessment of Potential Impacts to Provincially Significant Wetlands, October 21, 2025 (Source: WSP)
- Hydrological and Ecological Monitoring Plan, October 21, 2025 (Source: WSP)
- Supplemental Assessment of Potential Impacts to Baseflow in Mill Creek and Tributary 3, October 21, 2025 (Source: WSP)
- Supplemental Assessment and Mitigation of Post-Rehabilitation Groundwater Uplift, October 21, 2025 (Source: WSP)

# Sequence of Operations



- Phase Notes:**
- Phase 1 (Above Water Excavation)**
- Prior to extraction, and where applicable, sediment/erosion control measures (eg. silt fencing) will be installed as shown on Sequence of Operations.
  - The perimeter of the site will be fenced in accordance with the Aggregate Resources Act prior to commencement of extraction on the site, with the exception of the boundaries that are in the woodlot/wetland areas. These locations will be demarcated by 1.2m high marker posts. Fencing is to be 1.2m high post and wire fence. A 1.2m gate will be installed prior to operations at the entrance/exit location shown and kept locked when the pit is not in operation (also see Sequence of Operations and Variations from Control and Operation Standards on this page and page 3 of 5).
  - Prior to the commencement of the pit operation, a tile drain shall be installed in the setback area between the pit pond to the east and the licence boundary to the west as identified on page 2 of 5. The tile drain would convey excess groundwater through the subsurface during high water table periods in a northward direction, with excess groundwater reporting to Tributary 3 as an additional baseflow. The tile drain shall be constructed in accordance with the Supplemental Assessment and Mitigation of Post-Rehabilitation Groundwater Uplift (October 21, 2025, WSP).
  - Strip topsoil and overburden separately and store in optional berms and for use in perimeter grading to create the flood control feature (see Note C1 on Rehabilitation Plan, page 4 of 5).
  - Tree planting/tree screens will be established along the frontage of Concession 2 Road. In setback area locations where no berms are proposed, and there are no Archaeological restrictions, tree planting will commence.
  - Establish internal haul route for shipping of product off site for processing in the existing Aberfoyle South Pit (Licence #5497).
  - Extraction will commence in the central area of the site and proceed westerly and easterly from Phase 1.
- Phase 2 (Above Water Excavation)**
- Strip topsoil and overburden.
  - Extraction in Phase 2 will proceed in a westerly direction and will exclude Archaeological Site A1Hb-375 and associated protected ('no go') buffer area until appropriate clearance(s) have been obtained (see Note L5 'Archaeology').
  - Above water progressive rehabilitation of the westerly limit of above water extraction shall occur as this is the area of a former knoll feature and side sloping is necessary.
  - Prepare Phase 2 for below water extraction.
  - Prepare Phase 3 for above water extraction.
- Phase 2 (Below Water Excavation)**
- Creation of wetland and shallow shoreline areas in the southern and western setbacks area of this Phase (see Rehabilitation Plan, page 4 of 5).
  - Initiate below water excavation in the south portion of the excavation area and continue in a northerly direction to the limit of excavation and to the elevations as shown.
  - As extraction progresses, progressive rehabilitation will follow with the completion of above water side slopes and below water side slopes will be rehabilitated as below water excavation proceeds.
- Phase 3 (Above Water Excavation)**
- Strip topsoil and overburden.
  - Above water extraction will proceed in an easterly direction.
  - Prepare Phase 1 for below water extraction.
- Phase 1 (Below Water Excavation)**
- Creation of wetland and shallow shoreline areas in the northern setback area of this Phase (see Rehabilitation Plan, page 4 of 5).
  - Below water extraction will follow the same direction as above water extraction and proceed in an easterly direction to the depths (pit floor) shown on the Sequence of Operations.
  - Initiate progressive rehabilitation of below water side slopes from a west to east direction as operations progress.
  - Prepare Phase 3 for below water extraction.
- Phase 3 (Below Water Excavation)**
- Creation of shallow shoreline areas in the southern setback area of this Phase (See Rehabilitation Plan, page 4 of 5).
  - Below water extraction will follow the same direction as above water extraction and proceed in an easterly direction to the depths (pit floor) shown on the Sequence of Operations.
  - Initiate progressive rehabilitation of below water side slopes from a west to east direction as operations progress.
  - Prepare Phase 4 for above water extraction.
- Phase 4 (Above Water Excavation)**
- Prior to extraction in Phase 4, the acoustic berm ('North Berm') must be completed to the requirements outlined in Note L 'Noise' on page 3 of 5.
  - Strip topsoil/overburden.
  - Above water extraction will proceed in an easterly direction.
  - Creation of shallow shoreline areas in the southern setback area of this Phase (see Rehabilitation Plan, page 4 of 5).
  - Prepare Phase 4 for below water extraction.
- Phase 5 (Not Shown)**
- Remove any equipment, haul roads and buildings on site.
  - Final rehabilitation to be completed (see Rehabilitation Plan on page 4 of 5).

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TOWNSHIP OF PUSLINCH  
COUNTY OF WELLINGTON

**Legend**

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- Additional Lands Owned by Applicant
- Field Access
- Existing Spot Height Elevation
- Existing Fence
- Existing Vegetation
- Drainage Feature
- Parcel Fabric
- Archaeological Site
- Provincially Significant Wetland
- Groundwater Monitor
- Surface Water Monitor
- Cross Sections
- Limit of Excavation
- Operational Entrance/Exit
- General Direction of Above Water Excavation
- Below Water Excavation Limit
- Direction of Below Water Excavation
- Acoustic Berm
- Optional Storage Berm
- Proposed Spot Elevation
- Receptor Locations
- Loader and Dragline Restrictions
- Sediment/Erosion Control Measures
- Tree Screen/Planting
- Tile Drain

**Site Plan Amendments**

No.	Date	Description	By

**PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE**  
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**Applicant**  
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Telephone: (416) 696-4411

**Applicant's Signature**  
Andreanne Simard  
Director of Lands, Resources and Environment  
Votorantim Cimentos North America (VCNA)

**Project**  
**Aberfoyle South Lake Pit**

ARA Licence Reference No. \_\_\_\_\_ Pre-approval review: \_\_\_\_\_

Revs. to address Agency and Public comments - Nov.2025

For application submission - November 2023

Plan Scale 1:2,500 (Arch D)

**SCALE**  
0 25 50 100 METRES

Plot Scale 1:2.5 [1mm = 2.5 units] MODEL

Drawn By D.G.S. File No. \_\_\_\_\_  
Checked By N.D.

File Name **OPERATIONAL PLAN**  
Drawing No. **2 OF 5**

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